Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

(currently amended) A device for coupling a signal onto an elongated conductor
of an electrical power delivery system, the device comprising:

an <u>elongated</u> conductive member having a length of at least six inches but less than 200 feet, <u>said elongated conductive member adapted to be positioned in parallel with the elongated conductor:</u>

an insulator adapted to be positioned between the elongated conductive member and the elongated conductor along the length of the elongated conductive member such that the insulator separates the elongated conductor and the elongated conductive member along the length of the elongated conductive member and such that the elongated conductive member is capacitively coupled along its length to the elongated conductor, and

a data signal generator <u>adapted to be</u> connected to the <u>elongated</u> conductive member for supplying a data signal to the <u>elongated</u> conductive member;

wherein the <u>elongated</u> conductive member is adapted to capacitively couple the data signal onto the <u>elongated</u> conductor.

- (currently amended) The device of claim 1 wherein the <u>elongated</u> conductive member comprises a cable adapted to be positioned adjacent the <u>elongated</u> conductor.
- (currently amended) The device of claim 2 wherein the <u>elongated</u> conductive member is formed from a piece of common insulated cable.
- (currently amended) The device of claim 1 wherein the <u>clongated</u> conductive member comprises a conductive medium wrapped about the <u>clongated</u> conductor.

- (currently amended) The device of claim 1 wherein the <u>elongated</u> conductive member comprises an outer layer of a coaxial cable; and wherein an inner conductor of the coaxial cable is adapted to be connected to the <u>elongated</u> conductor of the electrical power delivery system.
- (original) The device of claim 5 wherein an end of the inner conductor is adapted to be connected to a neutral wire or a ground wire.
- 7. (currently amended) The device of claim 1 wherein the <u>clongated</u> conductor comprises a neutral wire or a ground wire of the electrical power delivery system; and wherein the <u>clongated</u> conductive member is adapted to capacitively couple the data signal onto the neutral wire or the ground wire.
- (currently amended) The device of claim 1 wherein the <u>elongated</u> conductor comprises a grounding wire of a surge arrester and wherein the <u>elongated</u> conductive member comprises a conductive medium adapted to be wrapped around the grounding wire.
- (currently amended) The device of claim 1 wherein the <u>elongated</u> conductor comprises a phase conductor of the electrical power delivery system; and wherein the <u>elongated</u> conductive member is adapted to capacitively couple the data signal onto the phase conductor.
- (currently amended) The device of claim 1 wherein the length of the elongated conductive member is at least 12 inches but less than 100 feet.
- (currently amended) The device of claim 1 wherein the length of the <u>elongated</u> conductive member is at least 2 feet but less than 50 feet.
- 12. (currently amended) The device of claim 1 wherein the length of the elongated conductive member is at least 2 feet but less than 10 feet

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- (currently amended) The device of claim 1 wherein the length of the elongated conductive member is at least 2 feet but less than 6 feet.
- (currently amended) The device of claim 1 further comprising an insulator
 adapted to be positioned between the elongated conductive member and the elongated conductor,
- 15. (currently amended) The device of claim 1 wherein the <u>elongated</u> conductive member is adapted to be positioned along the <u>elongated</u> conductor such that a capacitive coupling measured between the <u>elongated</u> conductive member and the <u>elongated</u> conductor is greater than 5 pF/cm.
- (currently amended) The device of claim 15 wherein the capacitive coupling
 measured between the <u>elongated</u> conductive member and the <u>elongated</u> conductor is greater than
 10 pF/cm.
- (currently amended) The device of claim 15 wherein the capacitive coupling
 measured between the <u>elongated</u> conductive member and the <u>elongated</u> conductor is greater than
 15 pF/cm.
- (currently amended) The device of claim 1 further comprising a resistor connected in series with the <u>clongated</u> conductive member and the data signal generator.
- (currently amended) The device of claim 1 having no magnetic core for coupling the data signal onto the <u>elongated</u> conductor.
- 20. (currently amended) A device for capacitively coupling a signal onto an <u>elongated</u> conductor of an electrical power delivery system, the device comprising:
- a <u>elongated</u> conductive member adapted to be positioned along the <u>elongated</u> conductor, said <u>elongated</u> conductive member positioned in parallel with the <u>elongated</u> conductor;
- an insulator adapted to be positioned between the <u>clongated</u> conductive member and the clongated conductor along the length of the clongated conductive member such that the insulator

separates the elongated conductor and the elongated conductive member along the length of the elongated conductive member and such that the elongated conductive member is capacitively coupled along its length to the elongated conductor;

wherein the capacitive coupling measured between the <u>elongated</u> conductive member and the elongated conductor is greater than 5 pF/cm.

- (currently amended) The device of claim 20 wherein the capacitive coupling
 measured between the <u>clongated</u> conductive member and the <u>clongated</u> conductor is greater than
 10 pF/cm.
- (currently amended) The device of claim 20 wherein the capacitive coupling
 measured between the <u>elongated</u> conductive member and the <u>elongated</u> conductor is greater than
 15 pF/cm.
- 23. (currently amended) A method of installing a device for capacitively coupling a signal onto a <u>elongated</u> conductor of an electrical power delivery system, the method comprising the steps of:

selecting a <u>elongated</u> conductive member having a length of at least six inches but less than 200 feet; and

providing a data signal generator to supply a data signal to the <u>elongated</u> conductive member; and

positioning the <u>elongated</u> conductive member <u>in parallel with the elongated conductor in order</u> to capacitively couple the data signal onto the <u>elongated</u> conductor; and

positioning an insulator between the elongated conductive member and the elongated conductor along the length of the elongated conductive member such that the insulator separates the elongated conductor and the elongated conductive member along the length of the elongated conductive member.

 (currently amended) The method of claim 23 wherein the selecting step further comprises selecting an insulated elongated conductive member. 25. (currently amended) The method of claim 23 wherein:

the selecting step further comprises selecting a cable; and

the positioning step further comprises positioning the cable adjacent to the elongated conductor so that the cable capacitively couples the data signal onto the elongated conductor.

26. (currently amended) The method of claim 23 wherein:

the selecting step further comprises selecting a length of coaxial cable; and

the providing step further comprises providing a data signal generator to supply a data signal to an outer layer of the coaxial cable; and

the positioning step further comprises connecting an inner conductor of the coaxial cable to the <u>elongated</u> conductor of the electrical power delivery system.

- (original) The method of claim 26 further comprising connecting an end of the inner conductor to a neutral wire or a ground wire.
- 28. (currently amended) The method of claim 23 wherein the positioning step further comprises positioning the <u>elongated</u> conductive member along the <u>elongated</u> conductor so that a capacitive coupling measured between the <u>elongated</u> conductive member and the <u>elongated</u> conductor is greater than 10 pF/cm.
- (currently amended) A device for coupling a signal onto an elongated conductor of an electrical power delivery system, the device comprising:

an elongated conductive member <u>having a length of at least six inches but less than 200 feet, said elongated conductive member</u> adapted to be positioned in parallel with the elongated conductor:

an insulator adapted to be positioned between the elongated conductive member and the elongated conductor along the length of the elongated conductive member such that the insulator separates the elongated conductor and the elongated conductive member along the length of the elongated conductive member and such that the elongated conductive member is capacitively coupled along its length to the elongated conductor, and

a data signal generator <u>adapted to be</u> connected to the elongated conductive member for supplying a data signal to the elongated conductive member;

wherein the elongated conductive member is adapted to capacitively couple the data signal onto the elongated conductor without a magnetic core such that the capacitive coupling measured between the elongated conductive member and the elongated conductor is greater than 5 pF/cm.

- (currently amended) A device for detecting a data signal coupled onto an elongated conductor of an electrical power delivery system, the device comprising:
- a <u>clongated</u> conductive member having a length of at least six inches but less than 200 feet, <u>said elongated conductive member adapted to be positioned in parallel with the elongated conductor</u>.

an insulator adapted to be positioned between the elongated conductive member and the elongated conductor along the length of the elongated conductive member such that the insulator separates the elongated conductor and the elongated conductive member along the length of the elongated conductive member and such that the elongated conductive member is capacitively coupled along its length to the elongated conductor; and

a detector connected to the <u>elongated</u> conductive member for detecting the data signal from the <u>elongated</u> conductive member;

wherein the <u>elongated</u> conductive member is adapted to be capacitively coupled to the elongated conductor.

- (currently amended) The device of claim 30 wherein the <u>clongated</u> conductive member comprises a cable adapted to be positioned adjacent the <u>clongated</u> conductor.
- (currently amended) The device of claim 31 wherein the <u>clongated</u> conductive member is formed from a piece of common insulated cable.
- (currently amended) The device of claim 30 wherein the <u>clongated</u> conductive member comprises a conductive medium wrapped about the <u>clongated</u> conductor.

- 34. (currently amended) The device of claim 30 wherein the <u>clongated</u> conductive member comprises an outer layer of a coaxial cable; and wherein an inner conductor of the coaxial cable is adapted to be connected to the <u>clongated</u> conductor of the electrical power delivery system.
- (original) The device of claim 34 wherein an end of the inner conductor is adapted to be connected to a neutral wire or a ground wire.
- (currently amended) The device of claim 30 wherein the elongated conductor comprises a neutral wire or a ground wire of the electrical power delivery system.
- 37. (currently amended) The device of claim 30 wherein the <u>elongated</u> conductor comprises a grounding wire of a surge arrester and wherein the <u>elongated</u> conductive member comprises a conductive medium adapted to be wrapped around the grounding wire.
- 38. (currently amended) The device of claim 30 wherein the elongated conductor comprises a phase conductor of the electrical power delivery system; wherein the elongated conductive member is adapted to capacitively couple the data signal onto the phase conductor.
- (currently amended) The device of claim 30 wherein the length of the elongated conductive member is at least 12 inches but less than 100 feet.
- 40. (currently amended) The device of claim 30 wherein the length of the elongated conductive member is at least 2 feet but less than 50 feet.
- (currently amended) The device of claim 30 wherein the length of the <u>elongated</u> conductive member is at least 2 feet but less than 10 feet.
- 42. (currently amended) The device of claim 30 wherein the length of the <u>clongated</u> conductive member is at least 2 feet but less than 6 feet.

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- (currently amended) The device of claim 30 further comprising an insulator
 adapted to be positioned between the elongated conductive member and the elongated conductor.
- 44. (currently amended) The device of claim 30 wherein the <u>clongated</u> conductive member is adapted to be positioned along the <u>clongated</u> conductor such that a capacitive coupling measured between the <u>clongated</u> conductive member and the <u>clongated</u> conductor is greater than 5 pF/cm.
- 45. (currently amended) The device of claim 44 wherein the capacitive coupling measured between the <u>elongated</u> conductive member and the <u>elongated</u> conductor is greater than 10 pF/cm.
- 46. (currently amended) The device of claim 44 wherein the capacitive coupling measured between the <u>elongated</u> conductive member and the <u>elongated</u> conductor is greater than 15 pF/cm.
- (currently amended) The device of claim 30 further comprising a resistor
 connected in series with the <u>clongated</u> conductive member and the data signal generator.
- 48. (currently amended) The device of claim 30 having no magnetic core for coupling the data signal onto the elongated conductor.
- 49. (currently amended) A device for detecting a signal coupled onto an <u>elongated</u> conductor of an electrical power delivery system, the device comprising:
- a <u>elongated</u> conductive member adapted to be positioned along the <u>clongated</u> conductor, <u>said elongated conductive member adapted to be positioned in parallel with the elongated</u> <u>conductor</u>; and
- an insulator adapted to be positioned between the <u>clongated</u> conductive member and the <u>clongated</u> conductor <u>along the length of the clongated conductive member such that the insulator</u> separates the <u>clongated conductor</u> and the <u>clongated conductive member along the length of the</u>

elongated conductive member and such that the elongated conductive member is capacitively coupled along its length to the elongated conductor;

wherein the capacitive coupling measured between the <u>elongated</u> conductive member and the elongated conductor is greater than 5 pF/cm.

- (currently amended) The device of claim 49 wherein the capacitive coupling
 measured between the <u>clongated</u> conductive member and the <u>clongated</u> conductor is greater than
 10 pF/cm.
- (currently amended) The device of claim 49 wherein the capacitive coupling
 measured between the <u>elongated</u> conductive member and the <u>elongated</u> conductor is greater than
 15 pF/cm.
- 52. (currently amended) A method of installing a device for detecting a data signal coupled onto an <u>elongated</u> conductor of an electrical power delivery system, the method comprising the steps of:

selecting a <u>elongated</u> conductive member having a length of at least six inches but less than 200 feet;

positioning the <u>elongated</u> conductive member <u>in parallel with the elongated conductor in order</u> to capacitively couple the <u>elongated</u> conductive member with the <u>elongated</u> conductor; and providing a data signal detector to detect the data signal from the <u>elongated</u> conductive member; and

positioning an insulator between the elongated conductive member and the elongated conductor along the length of the elongated conductive member such that the insulator separates the elongated conductor and the elongated conductive member along the length of the elongated conductive member.

53. (currently amended) The method of claim 52 wherein the selecting step further comprises selecting an insulated clongated conductive member.

54. (currently amended) The method of claim 52 wherein:

the selecting step further comprises selecting a cable; and

the positioning step further comprises positioning the cable adjacent to the <u>elongated</u> conductor so that the cable and the elongated conductor are capacitively coupled.

55. (currently amended) The method of claim 52 wherein:

the selecting step further comprises selecting a length of coaxial cable; and the providing step further comprises providing a data signal detector to detect the data signal from an outer layer of the coaxial cable; and

the positioning step further comprises connecting an inner conductor of the coaxial cable to the <u>clongated</u> conductor of the electrical power delivery system.

- (original) The method of claim 55 further comprising connecting an end of the inner conductor to a neutral wire or a ground wire.
- 57. (currently amended) The method of claim 52 wherein the positioning step further comprises positioning the <u>elongated</u> conductive member along the <u>elongated</u> conductor so that a capacitive coupling measured between the <u>elongated</u> conductive member and the <u>elongated</u> conductor is greater than 10 pF/cm.
- 58. (currently amended) A device for detecting a data signal coupled onto an elongated conductor of an electrical power delivery system, the device comprising:

an elongated conductive member <u>having a length of at least six inches but less than 200</u> feet, <u>said elongated conductive member</u> adapted to be positioned in parallel with the elongated conductor:

an insulator adapted to be positioned between the elongated conductive member and the elongated conductor along the length of the elongated conductive member such that the insulator separates the elongated conductor and the elongated conductive member along the length of the elongated conductive member and such that the elongated conductive member is capacitively coupled along its length to the elongated conductor, and

a data signal detector <u>adapted to be</u> connected to the elongated conductive member for detecting the data signal from the elongated conductive member;

wherein the elongated conductive member is adapted to be capacitively coupled to the elongated conductor without a magnetic core such that the capacitive coupling measured between the elongated conductor is greater than 5 pF/cm.